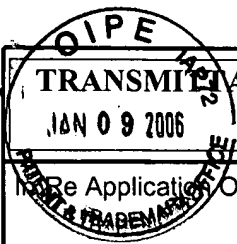


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TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
112440-714

Re Application Of: Botvinnik et al.

Application No.	Filing Date	Examiner	Customer No.	Group Art Unit	Confirmation No.
10/774,579	February 9, 2004	Richard L. Chiesa	29190	1724	9762

Title: **ELECTROSTATIC PRECIPITATORS WITH INSULATED DRIVER ELECTRODES**

Address to:
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

37 CFR 1.97(b)

1. ☐ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

37 CFR 1.97(c)

2. ☒ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:

☐ the statement specified in 37 CFR 1.97(e);

OR

☒ the fee set forth in 37 CFR 1.17(p).

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
112440-714

In Re: **Botvinnik et al.**

Application No.	Filing Date	Examiner	Customer No.	Group Art Unit	Confirmation No.
10/774,579	February 9, 2004	Richard L. Chiesa	29190	1724	9762

Title: **ELECTROSTATIC PRECIPITATORS WITH INSULATED DRIVER ELECTRODES**

Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☒ A check in the amount of **\$180.00** is attached.
- ☒ The Director is hereby authorized to charge and credit Deposit Account No. **02-1818** as described below.
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Dated: January 4, 2006

Robert M. Gould
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CC:



THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Botvinnik et al.
Appl. No.: 10/774,579
Conf. No.: 9762
Filed: February 9, 2004
Title: ELECTROSTATIC PRECIPITATORS WITH INSULATED DRIVER
ELECTRODES
Art Unit: 1724
Examiner: Chiesa, Richard L.
Docket No.: 112440-714

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 37 C.F.R. 1.97, and 37 C.F.R. 1.98, Applicants request that a citation and examination of the references cited below, and on the attached PTO-1449 form be made during the course of examination of the above-identified application for United States patent. Some of these references were cited in a Search Report from the corresponding PCT application, a copy of which is enclosed. Pursuant to 37 C.F.R. 1.98, copies of all foreign patent documents and non-patent documents are enclosed.

U.S. PATENT DOCUMENTS

<u>Document No.</u>	<u>Date</u>	<u>Inventor</u>
653,421 A	07/10/1900	Lorey
895,729 A	08/11/1908	Carlborg
995,958 A	06/20/1911	Goldberg
1,882,949 A	10/18/1932	Ruder
2,129,783 A	09/13/1938	Penney
2,590,447	03/25/1952	Nord et al.
2,978,066 A	04/04/1961	Nodolf
3,374,941 A	03/26/1968	Okress
3,540,191 A	11/17/1970	Herman
3,806,763	04/23/1974	Masuda
3,892,927	07/01/1975	Lindenberg
3,945,813	03/23/1976	Iinoya et al.
3,958,960	05/25/1976	Bakke
3,958,961	05/25/1976	Bakke

01/10/2006 SDENBOB1 00000059 10774579
01 FC:1806 180.00 GP

3,958,962	05/25/1976	Hayashi
3,988,131	10/26/1976	Kanazawa et al.
4,007,024	02/08/1977	Sallee et al.
4,056,372	11/01/1977	Hayashi
4,070,163	01/24/1978	Kolb et al.
4,074,983	02/21/1978	Bakke
4,097,252	06/27/1978	Kirchhoff et al.
4,102,654 A	07/25/1978	Pellin
4,104,042	08/01/1978	Brozenick
4,110,086	08/29/1978	Schwab et al.
4,119,415	10/10/1978	Hayashi et al.
4,126,434	11/21/1978	Keiichi
4,147,522	04/03/1979	Gonas et al.
4,155,792	05/22/1979	Gelhaar et al.
4,171,975	10/23/1979	Kato et al.
4,185,971	01/29/1980	Isahaya
4,189,308	02/19/1980	Feldman
4,205,969	06/03/1980	Matsumoto
4,218,225	08/19/1980	Kirchhoff et al.
4,225,323	09/30/1980	Zarchy et al.
4,251,234	02/17/1981	Chang
4,259,093	03/31/1981	Vlastos et al.
4,259,707	03/31/1981	Penney
4,289,504	09/15/1981	Scholes
4,293,319	10/06/1981	Claassen, Jr.
4,308,036	12/29/1981	Zahedi et al.
4,315,188	02/09/1982	Cerny et al.
4,338,560	07/06/1982	Lemley
4,349,359	09/14/1982	Fitch et al.
4,351,648	09/28/1982	Penney
4,354,861	10/19/1982	Kalt
4,362,632	12/07/1982	Jacob
4,363,072	12/07/1982	Coggins
4,366,525	12/28/1982	Baumgartner
4,369,776	01/25/1983	Roberts
4,375,364	03/01/1983	Van Hoesen et al.
4,380,900	04/26/1983	Linder et al.

4,391,614	07/05/1983	Rozmus
4,394,239	07/19/1983	Kitzelmann et al.
4,405,342	09/20/1983	Bergman
4,406,671	09/27/1983	Rozmus
4,412,850	11/01/1983	Kurata et al.
4,414,603	11/08/1983	Masuda
4,435,190	03/06/1984	Taillet et al.
4,440,552	04/03/1984	Uchiya et al.
4,443,234	04/17/1984	Carlsson
4,477,268	10/16/1984	Kalt
4,481,017	11/06/1984	Furlong
4,505,724	03/19/1985	Baab
4,514,780	04/30/1985	Brussee et al.
4,515,982	05/07/1985	Lechtken et al.
4,521,229	06/04/1985	Baker et al.
4,522,634	06/11/1985	Frank
4,534,776	08/13/1985	Mammel et al.
4,544,382	10/01/1985	Taillet et al.
4,555,252	11/26/1985	Eckstein
4,569,684	02/11/1986	Ibbott
4,582,961	04/15/1986	Frederiksen
4,588,423	05/13/1986	Gillingham et al.
4,590,042	05/20/1986	Drage
4,597,780	07/01/1986	Reif
4,597,781	07/01/1986	Spector
4,604,174	08/05/1986	Bollinger et al.
4,614,573	09/30/1986	Masuda
4,623,365	11/18/1986	Bergman
4,632,135	12/30/1986	Lenting et al.
4,632,746	12/30/1986	Bergman
4,636,981	01/13/1987	Ogura
4,643,744	02/17/1987	Brooks
4,647,836	03/03/1987	Olsen
4,650,648	03/17/1987	Beer et al.
4,656,010	04/07/1987	Leitzke et al.
4,657,738	04/14/1987	Kanter et al.
4,662,903	05/05/1987	Yanagawa

4,666,474	05/19/1987	Cook
4,668,479	05/26/1987	Manabe et al.
4,670,026	06/02/1987	Hoening
4,680,496	07/14/1987	Letournel et al.
4,692,174	09/08/1987	Gelfand et al.
4,691,829	09/08/1987	Auer
4,693,869	09/15/1987	Pfaff
4,702,752	10/27/1987	Yanagawa
4,713,092	12/15/1987	Kikuchi et al.
4,715,870	12/29/1987	Masuda et al.
4,725,289	02/16/1988	Quintilian
4,736,127	04/05/1988	Jacobsen
4,743,275	05/10/1988	Flanagan
4,749,390	06/07/1988	Burnett et al.
4,750,921	06/14/1988	Sugita et al.
4,760,302	07/26/1988	Jacobsen
4,760,303	07/26/1988	Miyake
4,765,802	08/23/1988	Gombos et al.
4,771,361	09/13/1988	Varga
4,822,381	04/18/1989	Mosley et al.
4,853,005	08/01/1989	Jaisinghani et al.
4,869,736	09/26/1989	Ivester et al.
4,892,713	01/09/1990	Newman
4,929,139	05/29/1990	Vorreiter et al.
4,940,894	07/10/1990	Morters
4,941,224	07/17/1990	Saeki et al.
4,944,778	07/31/1990	Yanagawa
4,954,320	09/04/1990	Birmingham et al.
4,955,991 A	09/11/1990	Torok et al.
4,967,119 A	10/10/1990	Torok et al.
4,966,666	10/30/1990	Waltonen
4,976,752 A	12/11/1990	Torok et al.
4,978,372	12/18/1990	Pick
D315,598 S	03/19/1991	Yamamoto et al.
5,003,774	04/02/1991	Leonard
5,006,761 A	04/09/1991	Torok et al.
5,012,093 A	04/30/1991	Shimizu

5,012,094	04/30/1991	Hamade
5,012,159 A	04/30/1991	Torok et al.
5,022,979	06/11/1991	Hijikata et al.
5,030,254	07/09/1991	Heyen et al.
5,043,033 A	07/23/1991	Alsup et al.
5,037,456	08/06/1991	Yu
5,045,095	09/03/1991	You
5,053,912 A	10/01/1991	Loreth et al.
5,059,219	10/22/1991	Plaks et al.
5,061,462	10/29/1991	Suzuki
5,066,313	11/19/1991	Mallory, Sr.
5,072,746	12/17/1991	Kantor
5,077,500 A	12/31/1991	Torok et al.
5,077,468	12/31/1991	Hamade
5,076,820	12/31/1991	Gurvitz
5,100,440	03/31/1992	Stahel et al.
D326,514	05/26/1992	Alsup et al.
5,118,942	06/02/1992	Hamade
5,125,936	06/30/1992	Johansson
5,136,461	08/04/1992	Zellweger
5,137,546	08/11/1992	Steinbacher et al.
5,141,715	08/25/1992	Sackinger et al.
D329,284 S	09/08/1992	Patton
5,147,429	09/15/1992	Bartholomew et al.
5,154,733	10/13/1992	Fujii et al.
5,158,580	10/27/1992	Chang
D332,655 S	01/19/1993	Lytle et al.
5,180,404 A	01/19/1993	Loreth et al.
5,198,003	03/30/1993	Haynes
5,199,257	04/06/1993	Colletta et al.
5,210,678	05/11/1993	Lain et al.
5,217,511	06/08/1993	Plaks et al.
5,234,555	08/10/1993	Ibbott
5,248,324 A	09/28/1993	Hara
5,250,267	10/05/1993	Johnson et al.
5,254,155	10/19/1993	Mensi
5,266,004 A	11/30/1993	Tsumurai et al.

5,271,763	12/21/1993	Jang
5,282,891	02/01/1994	Durham
5,290,343 A	03/01/1994	Morita et al.
5,308,586	05/03/1994	Fritsche et al.
5,330,559	07/19/1994	Cheney et al.
5,348,571	09/20/1994	Weber
5,376,168	12/27/1994	Inculet
5,386,839 A	02/07/1995	Chen
5,395,430	03/07/1995	Lundgren et al.
5,401,301	03/28/1995	Schulmerich et al.
5,401,302	03/28/1995	Schulmerich et al.
5,403,383	04/04/1995	Jaisinghani
5,405,434	04/11/1995	Inculet
5,407,639	04/18/1995	Watanabe et al.
5,407,469	04/18/1995	Sun
5,417,936	05/23/1995	Suzuki et al.
5,419,953	05/30/1995	Chapman
5,433,772	07/18/1995	Sikora
5,435,817 A	07/25/1995	Davis et al.
5,435,978	07/25/1995	Yokomi
5,437,843	08/01/1995	Kuan
5,445,798	08/29/1995	Ikeda et al.
5,466,279	11/14/1995	Hattori et al.
5,468,454	11/21/1995	Kim
5,474,599	12/12/1995	Cheney et al.
5,484,473	01/16/1996	Bontempi
5,492,678	02/20/1996	Ota et al.
5,501,844	03/26/1996	Kasting, Jr. et al.
5,503,808	04/02/1996	Garbutt et al.
5,503,809	04/02/1996	Coate et al.
5,505,914	04/09/1996	Tona-Serra
5,508,008	04/16/1996	Wasser
5,514,345	05/07/1996	Garbutt et al.
5,516,493	05/14/1996	Bell et al.
5,518,531	05/21/1996	Joannu
5,520,887	05/28/1996	Shimizu et al.
5,525,310	06/11/1996	Decker et al.

5,529,613	06/25/1996	Yavnieli
5,529,760	06/25/1996	Burris
5,532,798 A	07/02/1996	Nakagami et al.
5,536,477	07/16/1996	Cha et al.
5,538,695	07/23/1996	Shinjo et al.
5,540,761	07/30/1996	Yamamoto
5,542,967	08/06/1996	Ponizovsky et al.
5,545,379	08/13/1996	Gray
5,545,380	08/13/1996	Gray
5,547,643	08/20/1996	Nomoto et al.
5,549,874	08/27/1996	Kimiya et al.
5,554,344	09/10/1996	Duarte
5,554,345	09/10/1996	Kitchenman
5,569,368	10/29/1996	Larsky et al.
5,569,437	10/29/1996	Stiehl et al.
5,571,483	11/05/1996	Pfingstl et al.
D375,546 S	11/12/1996	Lee
5,573,577	11/12/1996	Joannou
5,573,730	11/12/1996	Gillum
5,578,280	11/26/1996	Kazi et al.
5,582,632	12/10/1996	Nohr et al.
5,587,131	12/24/1996	Malkin et al.
5,591,253	01/07/1997	Altman et al.
5,591,334	01/07/1997	Shimizu et al.
5,591,412	01/07/1997	Jones et al.
5,593,476	01/14/1997	Coppom
D377,523 S	01/21/1997	Marvin et al.
5,603,752	02/18/1997	Hara
5,603,893	02/18/1997	Gundersen et al
5,614,002	03/25/1997	Chen
5,624,476	04/29/1997	Eyraud
5,630,866	05/20/1997	Gregg
5,630,990	05/20/1997	Conrad et al.
5,637,198	06/10/1997	Breault
5,637,279	06/10/1997	Besen et al.
5,641,342 A	06/24/1997	Smith et al.
5,641,461	06/24/1997	Ferone

5,647,890	07/15/1997	Yamamoto
5,648,049	07/15/1997	Jones et al.
5,655,210	08/05/1997	Gregoire et al.
5,665,147	09/09/1997	Taylor et al.
5,667,563	09/16/1997	Silva, Jr.
5,667,565	09/16/1997	Gondar
5,667,756	09/16/1997	Ho
5,678,237	10/14/1997	Powell et al.
5,681,434	10/28/1997	Eastlund
5,681,533	10/28/1997	Hiroimi
D389,567 S	01/20/1998	Gudefin
5,766,318 A	06/16/1998	Loreth et al.
5,980,614 A	11/09/1999	Loreth et al.
5,993,521 A	11/30/1999	Loreth et al.
5,993,738 A	11/30/1999	Goswani
6,090,189 A	07/18/2000	Wikstrom
6,117,216 A	09/12/2000	Loreth
5,484,472 C1	02/20/2001	Weinberg
6,176,977 B1	01/23/2001	Taylor et al.
6,187,271 B1	02/13/2001	Lee et al.
6,203,600 B1	03/20/2001	Loreth
6,251,171 B1	06/26/2001	Marra et al.
6,296,692 B1	10/02/2001	Gutmann
D449,097 S	10/09/2001	Smith et al.
6,506,238 B1	01/14/2003	Endo
6,632,407 B1	10/14/2003	Lau et al.
6,635,105 B2	10/21/2003	Ahlborn et al.
6,672,315 B2	01/06/2004	Taylor et al.
6,709,484 B2	03/23/2004	Lau et al.
6,713,026 B2	03/30/2004	Taylor et al.
6,735,830 B1	05/18/2004	Merciel
6,749,667 B2	06/15/2004	Reeves et al.
6,753,652	06/22/2004	Kim
6,761,796	07/13/2004	Srivastava et al.
6,768,108	07/27/2004	Hirano et al.
6,768,110	07/27/2004	Alani
6,768,120	07/27/2004	Leung et al.

6,768,121	07/27/2004	Horskey
6,770,878	08/03/2004	Uhlemann et al.
6,774,359	08/10/2004	Hirabayashi et al.
6,777,686	08/17/2004	Olson et al.
6,777,699	08/17/2004	Miley et al.
6,777,882	08/17/2004	Goldberg et al.
6,781,136	08/24/2004	Kato
6,785,912	09/07/2004	Julio
6,791,814	09/14/2004	Adachi et al.
6,794,661	09/21/2004	Tsukihara et al.
6,800,862	10/5/2004	Matsumoto et al.
6,803,585	10/12/2004	Glukhoy
6,805,916	10/19/2004	Cadieu
6,806,035	10/19/2004	Atireklapvarodom et al.
6,806,163	10/19/2004	Wu et al.
6,806,468	10/19/2004	Laiko et al.
6,808,606	10/26/2004	Thomsen et al.
6,809,310	10/26/2004	Chen
6,809,312	10/26/2004	Park et al.
6,809,325	10/26/2004	Dahi et al.
6,812,647	11/02/2004	Cornelius
6,815,690	11/09/2004	Veerasamy et al.
6,818,257	11/16/2004	Amann et al.
6,818,909	11/16/2004	Murrell et al.
6,819,053	11/16/2004	Johnson
6,797,339	09/28/2004	Akizuki et al.
6,797,964	09/28/2004	Yamashita
6,799,068	09/28/2004	Hartmann et al.
6,863,869	03/05/2005	Taylor et al.
6,896,853	05/24/2005	Law et al.
6,911,186	06/28/2005	Taylor et al.

U.S. PATENT PUBLICATION DOCUMENTS

<u>Document No.</u>	<u>Date</u>	<u>Inventor</u>
2003/0170150	09/11/2003	Law et al.
2003/0206839 A1	11/06/2003	Taylor et al.
2004/0033176 A1	02/19/2004	Lee et al.

2004/0052700 A1	03/18/2004	Kotlyar et al.
2004/0065202 A1	04/08/2004	Gatchell et al.
2004/0096376	05/20/2004	Taylor
2004/0136863 A1	07/15/2004	Yates et al.
2004/0166037 A1	08/26/2004	Youdell et al.
2004/0226447 A1	11/18/2004	Lau et al.
2004/0234431A1	11/25/2004	Taylor et al.
2004/0237787 A1	12/02/2004	Reeves et al.
2004/0251124 A1	12/16/2004	Lau
2004/0251909 A1	12/16/2004	Taylor et al.
2005/0000793 A1	01/06/2005	Taylor et al.

FOREIGN PATENT DOCUMENTS

<u>Document No.</u>	<u>Date</u>	<u>Country</u>
WO 92/05875 A1	04/16/1992	PCT
WO 96/04703 A1	02/15/1996	PCT
WO 99/07474 A1	02/18/1999	PCT
WO 03/013734 AA	02/20/2003	PCT
EP 0332624 B1	01/02/1992	Europe
CN 2138764 Y	06/27/1993	China
CN 2153231 Y	12/18/1993	China
CN 87210843 U	07/06/1988	China
DE 2206057	08/16/1973	Germany
DE 197 41 621 C 1	06/10/1999	Germany
GB 643,363	09/20/1950	Great Britain
JP S51-90077	08/06/1976	Japan
JP S62-20653	02/07/1987	Japan
JP S63-164948	10/27/1988	Japan
JP 10216561	08/18/1998	Japan

OTHER DOCUMENTS

Blueair AV 402 Air Purifier, shown at http://www.air-purifiers-usa.biz/Blueair_AV402.htm , on 8/24/2004.
Blueair AV 501 Air Purifier, shown at http://www.air-purifiers-usa.biz/Blueair_AV501.htm , on 8/24/2004.
ConsumerReports.org, "Air Cleaners: Behind the Hype," http://www.consumerreports.org/main/content/printable.jsp?FOLDER%3C%3EFOLDER_id , Oct. 2003.

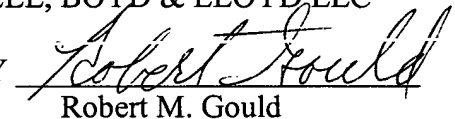
Electrical schematic and promotional material available from Zenion Industries, 7 pages, August 1990.
Friedrich C-90A Electronic Air Cleaner, Service Information, Friedrich Air Conditioning Co., 01/01/2003.
Friedrich C-90A, "How the C-90A Works," BestAirCleaner.com http://www.bestaircleaner.com/faq/c90works.asp .
"Household Air Cleaners," Consumer Reports Magazine, Oct. 1992.
LakeAir Excel and Maxum Portable Electronic Air Cleaners, Operating and Service Manual, LakeAir International, Inc., 1971.
Trion 120 Air Purifier, Model 442501-025, shown at http://www.feddersoutlet.com/trion120.html , on 07/19/2004.
Trion 150 Air Purifier, Model 45000-002, shown at http://www.feddersoutlet.com/trion150.html , on 07/19/2004.
Trion 350 Air Purifier, Model 450111-010, shown at http://www.feddersoutlet.com/trion350.html , on 07/19/2004.
Trion Console 250 Electronic Air Cleaner, Model Series 442857 and 445600, Manual for Installation·Operation·Maintenance, Trion Inc., November 1995.

Applicants look forward to early and favorable consideration of this matter.

Respectfully submitted,

BELL, BOYD & LLOYD LLC

BY

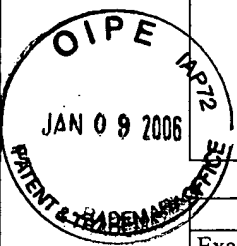


Robert M. Gould

Reg. No. 43,642

Customer No. 29190

Dated: January 4, 2006



INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary) PTO Form 1449	Atty Docket No. 112440-714	Application No. 10/774,579
	Applicant Botvinnik et al.	
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U.S. PATENT DOCUMENTS

Examiner's Initials	Document Number	Publication Date	Inventor	Class	Subclass	Filing Date If Appropriate
	653,421 A	07/10/1900	Lorey			
	895,729 A	08/11/1908	Carlborg			
	995,958 A	06/20/1911	Goldberg			
	1,882,949 A	10/18/1932	Ruder			
	2,129,783 A	09/13/1938	Penney			
	2,590,447	03/25/1952	Nord et al.			
	2,978,066	04/04/1961	Nodolf			
	3,374,941 A	03/26/1968	Okress			
	3,540,191 A	11/17/1970	Herman			
	3,806,763	04/23/1974	Masuda			
	3,892,927	07/01/1975	Lindenberg			
	3,945,813	03/23/1976	Iinoya et al.			
	3,958,960	05/25/1976	Bakke			
	3,958,961	05/25/1976	Bakke			
	3,958,962	05/25/1976	Hayashi			
	3,988,131	10/26/1976	Kanazawa et al.			
	4,007,024	02/08/1977	Sallee et al.			
	4,056,372	11/01/1977	Hayashi			
	4,070,163	01/24/1978	Kolb et al.			
	4,074,983	02/21/1978	Bakke			
	4,097,252	06/27/1978	Kirchhoff et al.			
	4,102,654 A	07/25/1978	Pellin			
	4,104,042	08/01/1978	Brozenick			
	4,110,086	08/29/1978	Schwab et al.			
	4,119,415	10/10/1978	Hayashi et al.			
	4,126,434	11/21/1978	Keiichi			
	4,147,522	04/03/1979	Gonas et al.			
	4,155,792	05/22/1979	Gelhaar et al.			
	4,171,975	10/23/1979	Kato et al.			
	4,185,971	01/29/1980	Isahaya			
	4,189,308	02/19/1980	Feldman			
	4,205,969	06/03/1980	Matsumoto			
	4,218,225	08/19/1980	Kirchhoff et al.			
	4,225,323	09/30/1980	Zarchy et al.			
	4,251,234	02/17/1981	Chang			
	4,259,093	03/31/1981	Vlastos et al.			
	4,259,707	03/31/1981	Penney			
	4,289,504	09/15/1981	Scholes			
	4,293,319	10/06/1981	Claassen, Jr.			
	4,308,036	12/29/1981	Zahedi et al.			
	4,315,188	02/09/1982	Cerny et al.			
	4,338,560	07/06/1982	Lemley			
	4,349,359	09/14/1982	Fitch et al.			

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U.S. PATENT DOCUMENTS						
Examiner's Initials	Document Number	Publication Date	Inventor	Class	Subclass	Filing Date If Appropriate
	4,351,648	09/28/1982	Penney			
	4,354,861	10/19/1982	Kalt			
	4,362,632	12/07/1982	Jacob			
	4,363,072	12/07/1982	Coggins			
	4,366,525	12/28/1982	Baumgartner			
	4,369,776	01/25/1983	Roberts			
	4,375,364	03/01/1983	Van Hoesen et al.			
	4,380,900	04/26/1983	Linder et al.			
	4,391,614	07/05/1983	Rozmus			
	4,394,239	07/19/1983	Kitzelmann et al.			
	4,405,342	09/20/1983	Bergman			
	4,406,671	09/27/1983	Rozmus			
	4,412,850	11/01/1983	Kurata et al.			
	4,414,603	11/08/1983	Masuda			
	4,435,190	03/06/1984	Taillet et al.			
	4,440,552	04/03/1984	Uchiya et al.			
	4,443,234	04/17/1984	Carlsson			
	4,477,268	10/16/1984	Kalt			
	4,481,017	11/06/1984	Furlong			
	4,505,724	03/19/1985	Baab			
	4,514,780	04/30/1985	Brussee et al.			
	4,515,982	05/07/1985	Lechtken et al.			
	4,521,229	06/04/1985	Baker et al.			
	4,522,634	06/11/1985	Frank			
	4,534,776	08/13/1985	Mammel et al.			
	4,544,382	10/01/1985	Taillet et al.			
	4,555,252	11/26/1985	Eckstein			
	4,569,684	02/11/1986	Ibbott			
	4,582,961	04/15/1986	Frederiksen			
	4,588,423	05/13/1986	Gillingham et al.			
	4,590,042	05/20/1986	Drage			
	4,597,780	07/01/1986	Reif			
	4,597,781	07/01/1986	Spector			
	4,604,174	08/05/1986	Bollinger et al.			
	4,614,573	09/30/1986	Masuda			
	4,623,365	11/18/1986	Bergman			
	4,632,135	12/30/1986	Lenting et al.			
	4,632,746	12/30/1986	Bergman			
	4,636,981	01/13/1987	Ogura			
	4,643,744	02/17/1987	Brooks			
	4,647,836	03/03/1987	Olsen			
	4,650,648	03/17/1987	Beer et al.			
	4,656,010	04/07/1987	Leitzke et al.			

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U.S. PATENT DOCUMENTS						
Examiner's Initials	Document Number	Publication Date	Inventor	Class	Subclass	Filing Date If Appropriate
	4,657,738	04/14/1987	Kanter et al.			
	4,662,903	05/05/1987	Yanagawa			
	4,666,474	05/19/1987	Cook			
	4,668,479	05/26/1987	Manabe et al.			
	4,670,026	06/02/1987	Hoenig			
	4,680,496	07/14/1987	Letournel et al.			
	4,692,174	09/08/1987	Gelfand et al.			
	4,691,829	09/08/1987	Auer			
	4,693,869	09/15/1987	Pfaff			
	4,702,752	10/27/1987	Yanagawa			
	4,713,092	12/15/1987	Kikuchi et al.			
	4,715,870	12/29/1987	Masuda et al.			
	4,725,289	02/16/1988	Quintilian			
	4,736,127	04/05/1988	Jacobsen			
	4,743,275	05/10/1988	Flanagan			
	4,749,390	06/07/1988	Burnett et al.			
	4,750,921	06/14/1988	Sugita et al.			
	4,760,302	07/26/1988	Jacobsen			
	4,760,303	07/26/1988	Miyake			
	4,765,802	08/23/1988	Gombos et al.			
	4,771,361	09/13/1988	Varga			
	4,822,381	04/18/1989	Mosley et al.			
	4,853,005	08/01/1989	Jaisinghani et al.			
	4,869,736	09/26/1989	Ivester et al.			
	4,892,713	01/09/1990	Newman			
	4,929,139	05/29/1990	Vorreiter et al.			
	4,940,894	07/10/1990	Morters			
	4,941,224	07/17/1990	Saeki et al.			
	4,944,778	07/31/1990	Yanagawa			
	4,954,320	09/04/1990	Birmingham et al.			
	4,955,991 A	09/11/1990	Torok et al.			
	4,967,119 A	10/10/1990	Torok et al.			
	4,966,666	10/30/1990	Waltonen			
	4,976,752 A	12/11/1990	Torok et al.			
	4,978,372	12/18/1990	Pick			
	D315,598 S	03/19/1991	Yamamoto et al.			
	5,003,774	04/02/1991	Leonard			
	5,006,761 A	04/09/1991	Torok et al.			
	5,012,093 A	04/30/1991	Shimizu			
	5,012,094	04/30/1991	Hamade			
	5,012,159 A	04/30/1991	Torok et al.			
	5,022,979	06/11/1991	Hijikata et al.			
	5,030,254	07/09/1991	Heyen et al.			

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U.S. PATENT DOCUMENTS							
Examiner's Initials		Document Number	Publication Date	Inventor	Class	Subclass	Filing Date If Appropriate
		5,043,033 A	07/23/1991	Alsup et al.			
		5,037,456	08/06/1991	Yu			
		5,045,095	09/03/1991	You			
		5,053,912 A	10/01/1991	Loreth et al.			
		5,059,219	10/22/1991	Plaks et al.			
		5,061,462	10/29/1991	Suzuki			
		5,066,313	11/19/1991	Mallory, Sr.			
		5,072,746	12/17/1991	Kantor			
		5,077,500 A	12/31/1991	Torok et al.			
		5,077,468	12/31/1991	Hamade			
		5,076,820	12/31/1991	Gurvitz			
		5,100,440	03/31/1992	Stahel et al.			
		D326,514	05/26/1992	Alsup et al.			
		5,118,942	06/02/1992	Hamade			
		5,125,936	06/30/1992	Johansson			
		5,136,461	08/04/1992	Zellweger			
		5,137,546	08/11/1992	Steinbacher et al.			
		5,141,715	08/25/1992	Sackinger et al.			
		D329,284 S	09/08/1992	Patton			
		5,147,429	09/15/1992	Bartholomew et al.			
		5,154,733	10/13/1992	Fujii et al.			
		5,158,580	10/27/1992	Chang			
		D332,655 S	01/19/1993	Lytle et al.			
		5,180,404 A	01/19/1993	Loreth et al.			
		5,198,003	03/30/1993	Haynes			
		5,199,257	04/06/1993	Colletta et al.			
		5,210,678	05/11/1993	Lain et al.			
		5,217,511	06/08/1993	Plaks et al.			
		5,234,555	08/10/1993	Ibbott			
		5,248,324 A	09/28/1993	Hara			
		5,250,267	10/05/1993	Johnson et al.			
		5,254,155	10/19/1993	Mensi			
		5,266,004 A	11/30/1993	Tsumurai et al.			
		5,271,763	12/21/1993	Jang			
		5,282,891	02/01/1994	Durham			
		5,290,343 A	03/01/1994	Morita et al.			
		5,308,586	05/03/1994	Fritsche et al.			
		5,330,559	07/19/1994	Cheney et al.			
		5,348,571	09/20/1994	Weber			
		5,376,168	12/27/1994	Inculet			
		5,386,839 A	02/07/1995	Chen			
		5,395,430	03/07/1995	Lundgren et al.			
		5,401,301	03/28/1995	Schulmerich et al.			

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U.S. PATENT DOCUMENTS							
Examiner's Initials		Document Number	Publication Date	Inventor	Class	Subclass	Filing Date If Appropriate
		5,401,302	03/28/1995	Schulmerich et al.			
		5,403,383	04/04/1995	Jaisinghani			
		5,405,434	04/11/1995	Inculet			
		5,407,639	04/18/1995	Watanabe et al.			
		5,407,469	04/18/1995	Sun			
		5,417,936	05/23/1995	Suzuki et al.			
		5,419,953	05/30/1995	Chapman			
		5,433,772	07/18/1995	Sikora			
		5,435,817 A	07/25/1995	Davis et al.			
		5,435,978	07/25/1995	Yokomi			
		5,437,843	08/01/1995	Kuan			
		5,445,798	08/29/1995	Ikeda et al.			
		5,466,279	11/14/1995	Hattori et al.			
		5,468,454	11/21/1995	Kim			
		5,474,599	12/12/1995	Cheney et al.			
		5,484,473	01/16/1996	Bontempi			
		5,492,678	02/20/1996	Ota et al.			
		5,501,844	03/26/1996	Kasting, Jr. et al.			
		5,503,808	04/02/1996	Garbutt et al.			
		5,503,809	04/02/1996	Coate et al.			
		5,505,914	04/09/1996	Tona-Serra			
		5,508,008	04/16/1996	Wasser			
		5,514,345	05/07/1996	Garbutt et al.			
		5,516,493	05/14/1996	Bell et al.			
		5,518,531	05/21/1996	Joannu			
		5,520,887	05/28/1996	Shimizu et al.			
		5,525,310	06/11/1996	Decker et al.			
		5,529,613	06/25/1996	Yavnieli			
		5,529,760	06/25/1996	Burris			
		5,532,798 A	07/02/1996	Nakagami et al.			
		5,536,477	07/16/1996	Cha et al.			
		5,538,695	07/23/1996	Shinjo et al.			
		5,540,761	07/30/1996	Yamamoto			
		5,542,967	08/06/1996	Ponizovsky et al.			
		5,545,379	08/13/1996	Gray			
		5,545,380	08/13/1996	Gray			
		5,547,643	08/20/1996	Nomoto et al.			
		5,549,874	08/27/1996	Kimiya et al.			
		5,554,344	09/10/1996	Duarte			
		5,554,345	09/10/1996	Kitchenman			
		5,569,368	10/29/1996	Larsky et al.			
		5,569,437	10/29/1996	Stiehl et al.			
		5,571,483	11/05/1996	Pfingstl et al.			

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U.S. PATENT DOCUMENTS						
Examiner's Initials	Document Number	Publication Date	Inventor	Class	Subclass	Filing Date If Appropriate
	D375,546 S	11/12/1996	Lee			
	5,573,577	11/12/1996	Joannou			
	5,573,730	11/12/1996	Gillum			
	5,578,280	11/26/1996	Kazi et al.			
	5,582,632	12/10/1996	Nohr et al.			
	5,587,131	12/24/1996	Malkin et al.			
	5,591,253	01/07/1997	Altman et al.			
	5,591,334	01/07/1997	Shimizu et al.			
	5,591,412	01/07/1997	Jones et al.			
	5,593,476	01/14/1997	Coppom			
	D377,523 S	01/21/1997	Marvin et al.			
	5,603,752	02/18/1997	Hara			
	5,603,893	02/18/1997	Gundersen et al			
	5,614,002	03/25/1997	Chen			
	5,624,476	04/29/1997	Eyraud			
	5,630,866	05/20/1997	Gregg			
	5,630,990	05/20/1997	Conrad et al.			
	5,637,198	06/10/1997	Breault			
	5,637,279	06/10/1997	Besen et al.			
	5,641,342 A	06/24/1997	Smith et al.			
	5,641,461	06/24/1997	Ferone			
	5,647,890	07/15/1997	Yamamoto			
	5,648,049	07/15/1997	Jones et al.			
	5,655,210	08/05/1997	Gregoire et al.			
	5,665,147	09/09/1997	Taylor et al.			
	5,667,563	09/16/1997	Silva, Jr.			
	5,667,565	09/16/1997	Gondar			
	5,667,756	09/16/1997	Ho			
	5,678,237	10/14/1997	Powell et al.			
	5,681,434	10/28/1997	Eastlund			
	5,681,533	10/28/1997	Hiromi			
	D389,567 S	01/20/1998	Gudefin			
	5,766,318 A	06/16/1998	Loreth et al.			
	5,980,614 A	11/9/1999	Loreth et al.			
	5,993,521 A	11/30/1999	Loreth et al.			
	5,993,738	11/30/1999	Goswani			
	6,090,189 A	07/18/2000	Wikstrom et al.			
	6,117,216 A	09/12/2000	Loreth			
	6,176,977 B1	01/23/2001	Taylor et al.			
	6,187,271 B1	02/13/2001	Lee et al.			
	5,484,472 C1	02/20/2001	Weinberg			
	6,203,600 B1	03/20/2001	Loreth			
	6,251,171 B1	06/26/2001	Marra et al.			

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U.S. PATENT DOCUMENTS							
Examiner's Initials		Document Number	Publication Date	Inventor	Class	Subclass	Filing Date If Appropriate
		6,296,692 B1	10/02/2001	Gutmann			
		D449,097 S	10/09/2001	Smith et al.			
		6,506,238 B1	01/11/2003	Endo			
		6,632,407 B1	10/14/2003	Lau et al.			
		6,635,105 B2	10/21/2003	Ahlborn et al.			
		6,672,315 B2	01/06/2004	Taylor et al.			
		6,709,484 B2	03/23/2004	Lau et al.			
		6,713,026 B2	03/30/2004	Taylor et al.			
		6,735,830 B1	05/18/2004	Merciel			
		6,749,667 B2	06/15/2004	Reeves et al.			
		6,753,652	06/22/2004	Kim			
		6,761,796	07/13/2004	Srivastava et al.			
		6,768,108	07/27/2004	Hirano et al.			
		6,768,110	07/27/2004	Alani			
		6,768,120	07/27/2004	Leung et al.			
		6,768,121	07/27/2004	Horskey			
		6,770,878	08/03/2004	Uhlemann et al.			
		6,774,359	08/10/2004	Hirabayashi et al.			
		6,777,686	08/17/2004	Olson et al.			
		6,777,699	08/17/2004	Miley et al.			
		6,777,882	08/17/2004	Goldberg et al.			
		6,781,136	08/24/2004	Kato			
		6,785,912	09/07/2004	Julio			
		6,791,814	09/14/2004	Adachi et al.			
		6,794,661	09/21/2004	Tsukihara et al.			
		6,800,862	10/5/2004	Matsumoto et al.			
		6,803,585	10/12/2004	Glukhoy			
		6,805,916	10/19/2004	Cadieu			
		6,806,035	10/19/2004	Atireklapvarodom et al.			
		6,806,163	10/19/2004	Wu et al.			
		6,806,468	10/19/2004	Laiko et al.			
		6,808,606	10/26/2004	Thomsen et al.			
		6,809,310	10/26/2004	Chen			
		6,809,312	10/26/2004	Park et al.			
		6,809,325	10/26/2004	Dahl et al.			
		6,812,647	11/02/2004	Cornelius			
		6,815,690	11/09/2004	Veerassamy et al.			
		6,818,257	11/16/2004	Amann et al.			
		6,818,909	11/16/2004	Murrell et al.			
		6,819,053	11/16/2004	Johnson			
		6,797,339	09/28/2004	Akizuki et al.			
		6,797,964	09/28/2004	Yamashita			
		6,799,068	09/28/2004	Hartmann et al.			

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U.S. PATENT DOCUMENTS							
Examiner's Initials		Document Number	Publication Date	Inventor	Class	Subclass	Filing Date If Appropriate
		6,863,869	03/05/2005	Taylor et al.			
		6,896,853	05/24/2005	Law et al.			
		6,911,186	06/28/2005	Taylor et al.			

U.S. PATENT PUBLICATION DOCUMENTS								
Examiner's Initials		Document Number	Publication Date	Inventor	Class	Subclass	Translation	
							Yes	No
		2003/0170150	09/11/2003	Law et al.				
		2003/0206839 A1	11/06/2003	Taylor et al.				
		2004/0033176 A1	02/19/2004	Lee et al.				
		2004/0052700 A1	03/18/2004	Kotlyar et al.				
		2004/0065202 A1	04/08/2004	Gatchell et al.				
		2004/0096376	05/20/2004	Taylor				
		2004/0136863 A1	07/15/2004	Yates et al.				
		2004/0166037 A1	08/26/2004	YoudeU et al.				
		2004/0226447 A1	11/18/2004	Lau et al.				
		2004/0234431 A1	11/25/2004	Taylor et al.				
		2004/0237787 A1	12/02/2004	Reeves et al.				
		2004/0251124 A1	12/16/2004	Lau				
		2004/0251909 A1	12/16/2004	Taylor et al.				
		2005/0000793 A1	01/06/2005	Taylor et al.				

FOREIGN PATENT DOCUMENTS								
Examiner's Initials		Document Number	Publication Date	Country	Class	Subclass	Translation	
							Yes	No
		WO 92/05875 A1	04/16/1992	PCT				
		WO 96/04703 A1	02/15/1996	PCT				
		WO 99/07474 A1	02/18/1999	PCT				
		WO 03/013734 AA	02/20/2003	PCT				
		EP 0332624 B1	01/02/1992	Europe				
		CN 2138764 Y	06/27/1993	China			Abstract	
		CN 2153231 Y	12/18/1993	China			Abstract	
		CN 87210843 U	07/06/1988	China			Abstract	
		DE 2206057	08/16/1973	Germany			X	
		DE 197 41 621 C 1	06/10/1999	Germany			X	
		GB 643,363	09/20/1950	Great Britain				
		JP S51-90077	08/06/1976	Japan			X	
		JP S62-20653	02/07/1987	Japan			X	
		JP S63-164948	10/27/1988	Japan			X	
		JP 10216561	08/18/1998	Japan			Abstract	

Examiner:	Date Considered:
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INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary) PTO Form 1449	Atty Docket No. 112440-714	Application No. 10/774,579
	Applicant Botvinnik et al.	
	Filing Date February 9, 2004	Group 1724

Examiner's Initials	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	Blueair AV 402 Air Purifier, shown at http://www.air-purifiers-usa.biz/Blueair_AV402.htm , on 8/24/2004.
	Blueair AV 501 Air Purifier, shown at http://www.air-purifiers-usa.biz/Blueair_AV501.htm , on 8/24/2004.
	ConsumerReports.org, "Air Cleaners: Behind the Hype," http://www.consumerreports.org/main/content/printable.jsp?FOLDER%3C%3EFOLDER_id , Oct. 2003.
	Electrical schematic and promotional material available from Zenion Industries, 7 pages, August 1990.
	Friedrich C-90A Electronic Air Cleaner, Service Information, Friedrich Air Conditioning Co., 01/01/2003.
	Friedrich C-90A, "How the C-90A Works," BestAirCleaner.com http://www.bestaircleaner.com/faq/c90works.asp , 1 page.
	"Household Air Cleaners," Consumer Reports Magazine, Oct. 1992.
	LakeAir Excel and Maxum Portable Electronic Air Cleaners, Operating and Service Manual, LakeAir International, Inc., 11 pp., 1971
	Trion 120 Air Purifier, Model 442501-025, shown at http://www.feddersoutlet.com/trion120.html , on 07/19/2004.
	Trion 150 Air Purifier, Model 45000-002, shown at http://www.feddersoutlet.com/trion150.html , on 07/19/2004.
	Trion 350 Air Purifier, Model 450111-010, shown at http://www.feddersoutlet.com/trion350.html , on 07/19/2004.
	Trion Console 250 Electronic Air Cleaner, Model Series 442857 and 445600, Manual for Installation·Operation·Maintenance, Trion Inc., November 1995.

Examiner:	Date Considered:
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. -Include copy of this form with next communication to applicant.	